

1 1. A dental delivery tool sized and configured for delivery of a dental  
2 composition into a dental preparation, comprising:

3 a hollow body configured to deliver a dental composition therefrom, the hollow body  
4 having a proximal receiving end, a distal delivery end, and a passageway communicating  
5 therebetween, the hollow body having a rim distal to the receiving end and a wall extending  
6 between the rim and the receiving end; and

7 a plurality of fibers coupled to at least a portion of the hollow body;  
8 wherein a portion of the fibers extend a length "L" distally beyond the rim of the  
9 hollow body;

10 wherein a portion of the fibers are coupled along the wall a distance "D" proximally  
11 with respect to the rim; and

12 wherein the distance "D" is at least about two and one half times greater than the  
13 length "L".

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15 2. A dental delivery tool as recited in claim 1, wherein a least a portion of the  
16 fibers extending the length "L" distally beyond the rim of the hollow body are coupled to the  
17 rim of the hollow body.

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19 3. A dental delivery tool as recited in claim 2, wherein at least a portion of the  
20 fibers coupled to the rim extend substantially perpendicularly from a face of the rim.

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22 4. A dental delivery tool as recited in claim 1, wherein at least a portion of the  
23 fibers coupled along the wall of the hollow body extend substantially perpendicularly from  
24 the wall.  
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1           5.    A dental delivery tool as recited in claim 1, wherein the delivery tool  
2 comprises a delivery tip.

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4           6.    A dental delivery tool as recited in claim 5, wherein the delivery tip is adapted  
5 for attachment to a syringe.

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7           7.    A dental delivery tool as recited in claim 1, wherein the delivery tool  
8 comprises an endodontic irrigator.

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10          8.    A dental delivery tool as recited in claim 1, wherein the delivery tool  
11 comprises a dental applicator.

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13          9.    A dental delivery tool as recited in claim 1, wherein at least a portion of the  
14 hollow body is curved.

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16          10.   A dental delivery tool as recited in claim 1, wherein at least a portion of the  
17 hollow body is rigid.

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19          11.   A dental delivery tool as recited in claim 1, wherein the fibers are deposited  
20 onto the hollow body by electrostatic flocking.

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22          12.   A dental delivery tool as recited in claim 1, wherein the distance "D" is at  
23 least about three times greater than the length "L".

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25          13.   A dental delivery tool as recited in claim 1, wherein the distance "D" is at  
26 least about four times greater than the length "L".

1           14.   A dental delivery tool as recited in claim 1, wherein the distance "D" is at  
2 least about five times greater than the length "L".  
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1           15. A dental delivery tool sized and configured for delivery of a dental  
2 composition into a dental preparation, comprising:

3           an elongate hollow body configured to deliver a dental composition therefrom, the  
4 hollow body having a proximal receiving end, a distal delivery end and a passageway  
5 communicating therebetween, the hollow body having a rim distal to the receiving end and  
6 a body wall extending between the rim and the receiving end;

7           coupling means for coupling the elongate hollow body to a delivery device; and

8           a plurality of fibers coupled to at least a portion of the hollow body;

9           wherein a portion of the fibers extend a length "L" distally beyond the rim of the  
10 hollow body;

11           wherein a portion of the fibers are coupled along the wall a distance "D" proximally  
12 with respect to the rim; and

13           wherein the distance "D" is at least about two and one half times greater than the  
14 length "L".

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16           16. A dental delivery tool as recited in claim 15, wherein at least a portion of the  
17 fibers extending the length "L" distally beyond the rim of the hollow body extend  
18 substantially perpendicularly from a face of the rim.

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20           17. A dental delivery tool as recited in claim 15, wherein at least a portion of the  
21 fibers coupled along the wall of the hollow body extend substantially perpendicularly from  
22 the wall.

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24           18. A dental delivery tool as recited in claim 15, wherein the coupling means is  
25 adapted for coupling the elongate hollow body to a syringe.

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1           19. A dental delivery tool as recited in claim 15, wherein the fibers are deposited  
2 onto the hollow body by electrostatic flocking.

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4           20. A dental delivery tool as recited in claim 15, wherein the distance "D" is at  
5 least about three times greater than the length "L".

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7           21. A dental delivery tool as recited in claim 15, wherein the distance "D" is at  
8 least about four times greater than the length "L".

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10          22. A dental delivery tool as recited in claim 15, wherein the distance "D" is at  
11 least about five times greater than the length "L".

1 23. A method for manufacturing a dental delivery tool sized and configured for  
2 delivery of a dental composition to a dental preparation, the method comprising:

3 providing an elongate hollow body configured for delivery of a dental composition  
4 therefrom, the elongate hollow body having a proximal receiving end, a distal delivery end  
5 and a passageway communicating therebetween, the distal delivery end having a rim and a  
6 wall; and

7 coupling a plurality of fibers onto at least a portion of the elongate hollow body in  
8 a manner so that a portion of the fibers extend a length "L" distally beyond the rim of the  
9 hollow body and a portion of the fibers are coupled along the wall a distance "D" proximally  
10 with respect to the rim,

11 wherein the distance "D" is at least about two and one half times greater than the  
12 length "L".

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14 24. A method as recited in claim 23, wherein the fibers are deposited onto the  
15 cannula through electrostatic flocking.

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17 25. A dental delivery tool as recited in claim 23, wherein the distance "D" is at  
18 least about three times greater than the length "L".

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20 26. A dental delivery tool as recited in claim 23, wherein the distance "D" is at  
21 least about four times greater than the length "L".

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23 27. A dental delivery tool as recited in claim 23, wherein the distance "D" is at  
24 least about five times greater than the length "L".  
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